

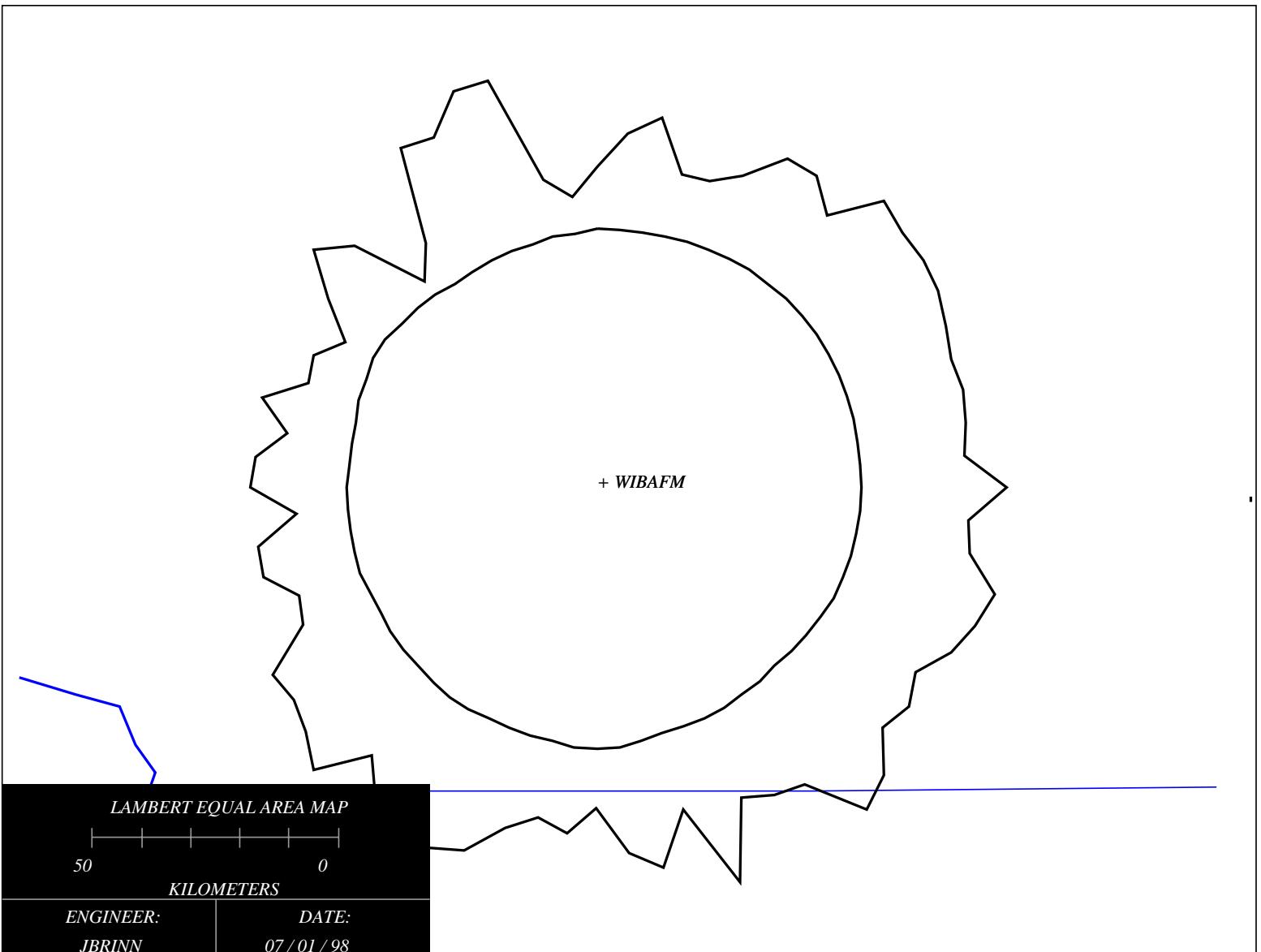
Notes on the WIBA plots:

This PDF package consists of eight plots:

1. Service contours, 60 dBu (standard method and PTP).
2. PTP Field Strengths at 320 degrees for 60 dBu contour.
3. PTP Field Strengths at 330 degrees for 60 dBu contour.
4. PTP Field Strengths at 340 degrees for 60 dBu contour.
5. Interference contours, 40 dBu (standard method and PTP).
(Ignore the predicted 'coverage area' for PTP. This function has not been updated in this version of PTP.)
6. PTP Field Strengths at 320 degrees for 40 dBu contour.
7. PTP Field Strengths at 330 degrees for 40 dBu contour.
8. PTP Field Strengths at 340 degrees for 40 dBu contour.

On curves 6, 7, and 8 for the interfering contours, ignore the F(50,50) curve on the plot. A future update to the program will substitute the F(50,10) contour when the interfering contour is called for.

July 2, 1998.



THE FOLLOWING IS A LIST OF THE DATA WHICH APPEARS ON THE ABOVE MAP

BOTTOM LATITUDE: 42.20 TOP LATITUDE: 43.94 LEFT LONGITUDE: -90.60 RIGHT LONGITUDE: -88.31

MAP: ENLARGED CONUS MAP PROJECTION: Lambert Equal-area CENTER LAT: 43.07 LONG: -89.46 GRID SPACING: 0.00

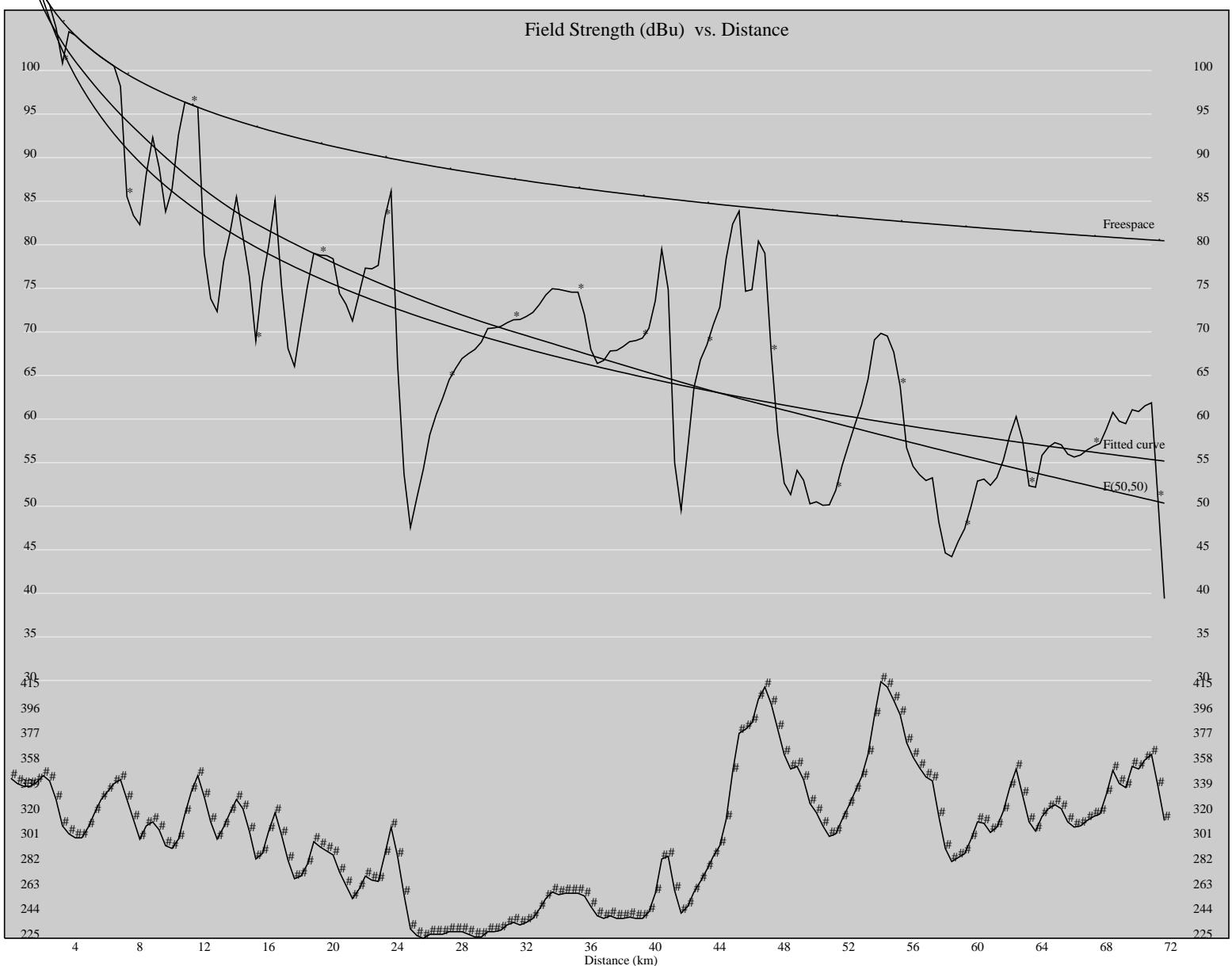
KILOMETERS / INCH = 31.67

PLOT MADE ON : 1 July, 1998 16:44 HOURS

call	serv	city,state	application no.	contour	chan	erp	haat	rcamsl	coverage area	A1	A7
WIBAFM	FM	Madison,WI	BLH950824KC	60.0 dBu (50,50)	268B	12.000	309.0	609.0	sq km	0	0
WIBAFM	FM	Madison,WI	BLH950824KC	60.0 dBu (50,50)	268B	12.000	309.0	609.0	8572.1 sq km	0	0

A1 - Number of radials where free space equation was used for field strength calculations.

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.



The following are used for this plot:

[Prepared 2-JUL-1998 11:34:21.31]

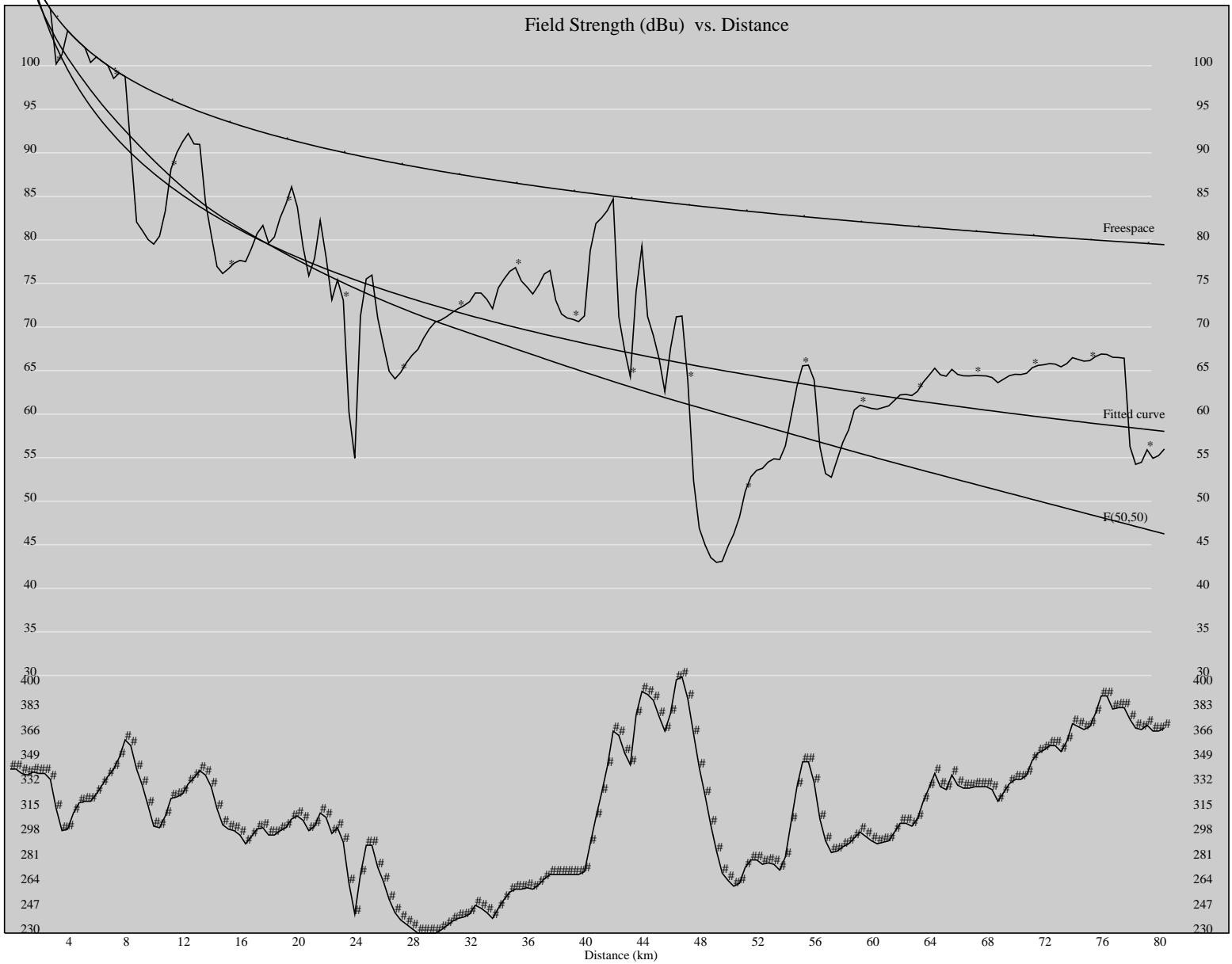
initpt= 2 maxpt= 181 latbegin= 155001 longbegin= 322326 (43.0558, 89.5350) latend= 158699 longend= 326672
 freq=101.5 erp = 12.00 kw (10.792 dBk) htamsl (m)= 609.0 contour (dBu)= 60.0 maxdist (km)= 150
 b-intercept (dBu)= 124.9 slope (field strength/distance)= -37.46

Distance to 60.0 dBu contour: 54.1 km. at 320.0 degrees

0.8 field= 119.6	13.7 field= 72.3	26.5 field= 54.2	39.4 field= 68.9	52.3 field= 51.8	65.2 field= 55.8
1.2 field= 116.1	14.1 field= 78.1	27.0 field= 58.2	39.8 field= 69.0	52.7 field= 54.7	65.6 field= 56.8
1.6 field= 113.6	14.5 field= 81.4	27.4 field= 60.5	40.2 field= 69.3	53.1 field= 57.1	66.0 field= 57.3
2.0 field= 111.6	14.9 field= 85.5	27.8 field= 62.4	40.6 field= 70.4	53.5 field= 59.4	66.4 field= 57.0
2.4 field= 110.0	15.3 field= 81.0	28.2 field= 64.5	41.0 field= 73.6	53.9 field= 61.6	66.8 field= 56.0
2.8 field= 108.7	15.7 field= 76.3	28.6 field= 65.8	41.4 field= 79.5	54.3 field= 64.5	67.2 field= 55.6
3.2 field= 107.5	16.1 field= 69.0	29.0 field= 66.9	41.8 field= 74.9	54.7 field= 69.1	67.6 field= 55.9
3.6 field= 104.9	16.5 field= 75.7	29.4 field= 67.5	42.2 field= 55.0	55.1 field= 69.8	68.0 field= 56.4
4.0 field= 100.8	16.9 field= 79.9	29.8 field= 68.0	42.6 field= 49.5	55.5 field= 69.5	68.4 field= 56.9
4.4 field= 104.4	17.3 field= 85.1	30.2 field= 68.8	43.0 field= 56.5	55.9 field= 67.7	68.8 field= 57.2
4.8 field= 104.0	17.7 field= 75.2	30.6 field= 70.4	43.4 field= 63.6	56.3 field= 63.7	69.2 field= 58.9
5.2 field= 103.3	18.1 field= 68.1	31.0 field= 70.5	43.8 field= 66.8	56.7 field= 56.7	69.6 field= 60.8
5.6 field= 102.7	18.5 field= 66.0	31.4 field= 70.6	44.2 field= 68.5	57.1 field= 54.6	70.0 field= 59.8
6.0 field= 102.1	18.9 field= 70.7	31.8 field= 71.0	44.6 field= 70.8	57.5 field= 53.6	70.4 field= 59.5
6.4 field= 101.5	19.3 field= 75.2	32.2 field= 71.4	45.1 field= 72.8	57.9 field= 52.9	70.8 field= 61.1
6.8 field= 101.0	19.7 field= 79.0	32.6 field= 71.4	45.5 field= 78.4	58.3 field= 53.2	71.2 field= 60.9
7.2 field= 100.5	20.1 field= 78.8	33.0 field= 71.8	45.9 field= 82.4	58.7 field= 48.2	71.6 field= 61.5
7.6 field= 98.2	20.5 field= 78.8	33.4 field= 72.2	46.3 field= 83.9	59.1 field= 44.6	72.0 field= 61.9
8.0 field= 85.5	20.9 field= 78.4	33.8 field= 73.1	46.7 field= 74.7	59.5 field= 44.2	72.4 field= 50.8
8.4 field= 83.4	21.3 field= 74.4	34.2 field= 74.2	47.1 field= 74.9	59.9 field= 45.9	72.8 field= 39.4
8.8 field= 82.3	21.7 field= 73.2	34.6 field= 74.9	47.5 field= 80.4	60.3 field= 47.4	
9.3 field= 88.1	22.1 field= 71.3	35.0 field= 74.9	47.9 field= 79.0	60.7 field= 50.0	
9.7 field= 92.3	22.5 field= 74.3	35.4 field= 74.7	48.3 field= 67.5	61.1 field= 52.9	
10.1 field= 88.9	22.9 field= 77.3	35.8 field= 74.6	48.7 field= 58.3	61.5 field= 53.1	
10.5 field= 83.8	23.3 field= 77.2	36.2 field= 74.5	49.1 field= 52.6	61.9 field= 52.4	
10.9 field= 86.4	23.7 field= 77.6	36.6 field= 72.2	49.5 field= 51.3	62.3 field= 53.3	
11.3 field= 92.6	24.1 field= 83.1	37.0 field= 68.0	49.9 field= 54.1	62.8 field= 55.3	
11.7 field= 96.4	24.5 field= 86.1	37.4 field= 66.4	50.3 field= 53.0	63.2 field= 58.1	
12.1 field= 96.1	24.9 field= 66.3	37.8 field= 66.7	50.7 field= 50.3	63.6 field= 60.3	
12.5 field= 95.8	25.3 field= 53.7	38.2 field= 67.8	51.1 field= 50.5	64.0 field= 57.6	
12.9 field= 79.0	25.7 field= 47.6	38.6 field= 67.9	51.5 field= 50.1	64.4 field= 52.3	
13.3 field= 73.8	26.1 field= 51.0	39.0 field= 68.3	51.9 field= 50.1	64.8 field= 52.2	

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= Terrain profile



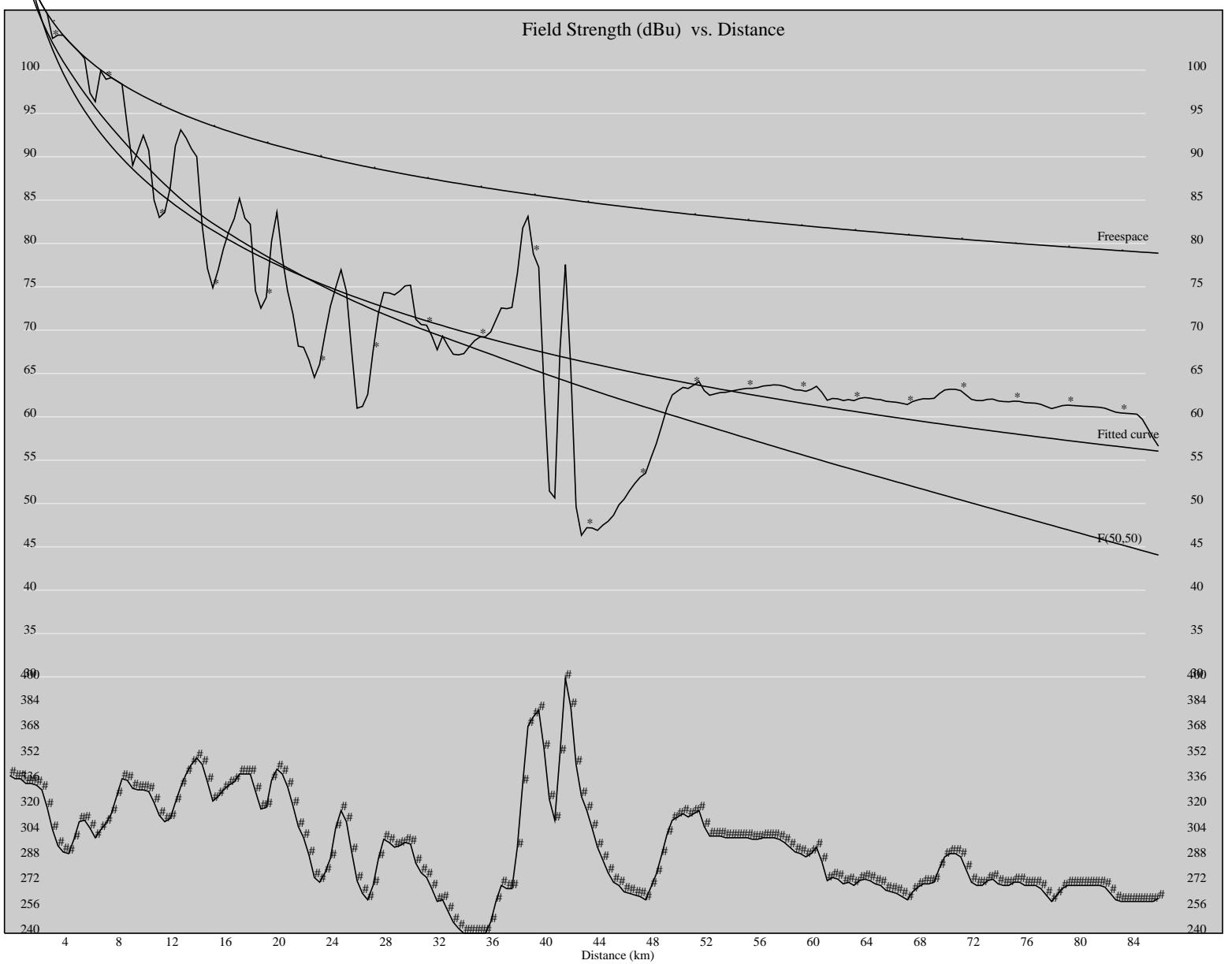
The following are used for this plot:
[Prepared 2-JUL-1998 11:33:44.10]
initpt= 2 maxpt= 203 latbegin= 155001 longbegin= 322326 (43.0558, 89.5350) latend= 159194 longend= 325714
freq=101.5 erp = 12.00 kw (10.792 dBk) htamsl (m)= 609.0 contour (dBu)= 60.0 maxdist (km)= 150
b-intercept (dBu)= 122.6 slope (field strength/distance)= -33.80

Distance to 60.0 dBu contour: 79.6 km. at 330.0 degrees

0.8 field= 119.6	13.7 field= 91.0	26.5 field= 71.0	39.4 field= 71.5	52.3 field= 51.1	65.2 field= 64.4	78.0 field= 66.5
1.2 field= 116.1	14.1 field= 91.0	27.0 field= 67.9	39.8 field= 71.0	52.7 field= 52.8	65.6 field= 65.3	78.4 field= 66.5
1.6 field= 113.6	14.5 field= 84.4	27.4 field= 64.9	40.2 field= 70.9	53.1 field= 53.6	66.0 field= 64.5	78.8 field= 66.4
2.0 field= 111.6	14.9 field= 80.6	27.8 field= 64.1	40.6 field= 70.6	53.5 field= 53.8	66.4 field= 64.3	79.2 field= 56.3
2.4 field= 110.0	15.3 field= 76.9	28.2 field= 64.8	41.0 field= 71.3	53.9 field= 54.5	66.8 field= 65.1	79.6 field= 54.2
2.8 field= 108.7	15.7 field= 76.1	28.6 field= 65.9	41.4 field= 78.8	54.3 field= 54.9	67.2 field= 64.6	80.0 field= 54.5
3.2 field= 107.5	16.1 field= 76.7	29.0 field= 66.8	41.8 field= 81.9	54.7 field= 54.8	67.6 field= 64.4	80.4 field= 55.9
3.6 field= 106.5	16.5 field= 77.3	29.4 field= 67.4	42.2 field= 82.5	55.1 field= 56.3	68.0 field= 64.4	80.9 field= 54.9
4.0 field= 100.2	16.9 field= 77.6	29.8 field= 68.7	42.6 field= 83.4	55.5 field= 59.8	68.4 field= 64.4	81.3 field= 55.2
4.4 field= 101.3	17.3 field= 77.5	30.2 field= 69.8	43.0 field= 84.7	55.9 field= 63.2	68.8 field= 64.4	81.7 field= 56.0
4.8 field= 104.0	17.7 field= 79.0	30.6 field= 70.6	43.4 field= 71.2	56.3 field= 65.6	69.2 field= 64.4	
5.2 field= 103.3	18.1 field= 80.7	31.0 field= 70.8	43.8 field= 67.3	56.7 field= 65.6	69.6 field= 64.2	
5.6 field= 102.7	18.5 field= 81.7	31.4 field= 71.2	44.2 field= 64.3	57.1 field= 63.9	70.0 field= 63.6	
6.0 field= 102.1	18.9 field= 79.6	31.8 field= 71.7	44.6 field= 74.1	57.5 field= 56.3	70.4 field= 64.0	
6.4 field= 100.4	19.3 field= 80.3	32.2 field= 72.1	45.1 field= 79.3	57.9 field= 53.2	70.8 field= 64.4	
6.8 field= 101.0	19.7 field= 82.5	32.6 field= 72.4	45.5 field= 71.2	58.3 field= 52.8	71.2 field= 64.6	
7.2 field= 100.5	20.1 field= 84.1	33.0 field= 72.9	45.9 field= 69.0	58.7 field= 54.7	71.6 field= 64.5	
7.6 field= 100.0	20.5 field= 86.1	33.4 field= 73.9	46.3 field= 66.4	59.1 field= 56.8	72.0 field= 64.7	
8.0 field= 98.5	20.9 field= 83.8	33.8 field= 73.9	46.7 field= 62.6	59.5 field= 58.2	72.4 field= 65.3	
8.4 field= 99.2	21.3 field= 79.2	34.2 field= 73.2	47.1 field= 67.5	59.9 field= 60.5	72.8 field= 65.6	
8.8 field= 98.8	21.7 field= 75.9	34.6 field= 72.1	47.5 field= 71.2	60.3 field= 61.0	73.2 field= 65.7	
9.3 field= 90.5	22.1 field= 77.9	35.0 field= 74.5	47.9 field= 71.2	60.7 field= 60.8	73.6 field= 65.8	
9.7 field= 82.0	22.5 field= 82.2	35.4 field= 75.5	48.3 field= 63.9	61.1 field= 60.6	74.0 field= 65.7	
10.1 field= 81.1	22.9 field= 78.0	35.8 field= 76.4	48.7 field= 52.3	61.5 field= 60.6	74.4 field= 65.4	
10.5 field= 80.0	23.3 field= 73.1	36.2 field= 76.8	49.1 field= 46.9	61.9 field= 60.8	74.8 field= 65.8	
10.9 field= 79.5	23.7 field= 75.4	36.6 field= 75.3	49.5 field= 45.0	62.3 field= 60.9	75.2 field= 66.5	
11.3 field= 80.4	24.1 field= 73.1	37.0 field= 74.6	49.9 field= 43.5	62.8 field= 61.6	75.6 field= 66.3	
11.7 field= 83.3	24.5 field= 60.2	37.4 field= 73.8	50.3 field= 43.0	63.2 field= 62.2	76.0 field= 66.1	
12.1 field= 88.1	24.9 field= 54.9	37.8 field= 74.8	50.7 field= 43.1	63.6 field= 62.3	76.4 field= 66.1	
12.5 field= 90.0	25.3 field= 71.2	38.2 field= 76.1	51.1 field= 44.8	64.0 field= 62.1	76.8 field= 66.6	
12.9 field= 91.2	25.7 field= 75.5	38.6 field= 76.5	51.5 field= 46.2	64.4 field= 62.6	77.2 field= 66.9	
13.3 field= 92.2	26.1 field= 76.0	39.0 field= 73.1	51.9 field= 48.2	64.8 field= 63.7	77.6 field= 66.9	

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= Terrain profile



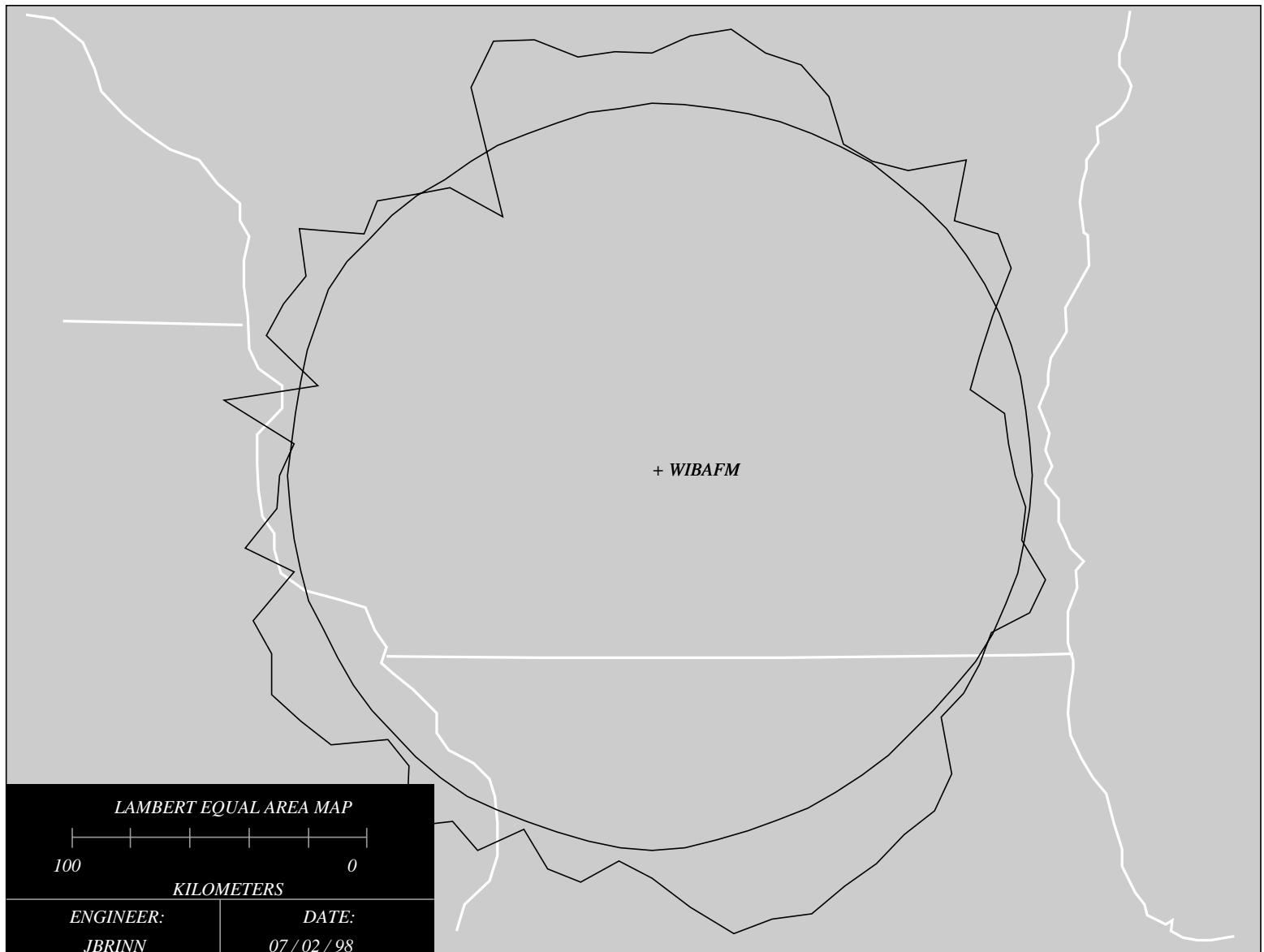
The following are used for this plot:
[Prepared 2-JUL-1998 11:32:43.05]
initpt= 2 maxpt= 217 latbegin= 155001 longbegin= 322326 (43.0558, 89.5350) latend= 159559 longend= 324648
freq=101.5 erp = 12.00 kw (10.792 dBk) htamsl (m)= 609.0 contour (dBu)= 60.0 maxdist (km)= 150
b-intercept (dBu)= 123.3 slope (field strength/distance)= -34.67

Distance to 60.0 dBu contour: 85.3 km. at 340.0 degrees

0.8 field= 119.6	13.7 field= 93.1	26.5 field= 67.6	39.4 field= 81.8	52.3 field= 63.6	65.2 field= 62.2	78.0 field= 61.6
1.2 field= 116.1	14.1 field= 92.2	27.0 field= 61.0	39.8 field= 83.1	52.7 field= 64.1	65.6 field= 62.2	78.4 field= 61.4
1.6 field= 113.6	14.5 field= 90.9	27.4 field= 61.2	40.2 field= 78.8	53.1 field= 63.0	66.0 field= 62.0	78.8 field= 61.2
2.0 field= 111.6	14.9 field= 90.0	27.8 field= 62.6	40.6 field= 77.2	53.5 field= 62.5	66.4 field= 62.0	79.2 field= 60.9
2.4 field= 110.0	15.3 field= 82.1	28.2 field= 67.6	41.0 field= 63.2	53.9 field= 62.7	66.8 field= 61.8	79.6 field= 61.1
2.8 field= 108.7	15.7 field= 77.1	28.6 field= 72.0	41.4 field= 51.4	54.3 field= 62.8	67.2 field= 61.7	80.0 field= 61.3
3.2 field= 107.5	16.1 field= 74.9	29.0 field= 74.3	41.8 field= 50.6	54.7 field= 62.8	67.6 field= 61.7	80.4 field= 61.3
3.6 field= 106.5	16.5 field= 77.0	29.4 field= 74.3	42.2 field= 67.8	55.1 field= 63.0	68.0 field= 61.5	80.9 field= 61.3
4.0 field= 103.6	16.9 field= 79.4	29.8 field= 74.1	42.6 field= 77.6	55.5 field= 63.1	68.4 field= 61.4	81.3 field= 61.3
4.4 field= 104.0	17.3 field= 81.4	30.2 field= 74.5	43.0 field= 65.6	55.9 field= 63.2	68.8 field= 61.8	81.7 field= 61.2
4.8 field= 104.0	17.7 field= 82.9	30.6 field= 75.1	43.4 field= 49.6	56.3 field= 63.3	69.2 field= 62.0	82.1 field= 61.2
5.2 field= 103.3	18.1 field= 85.2	31.0 field= 75.2	43.8 field= 46.3	56.7 field= 63.3	69.6 field= 62.1	82.5 field= 61.1
5.6 field= 102.7	18.5 field= 82.9	31.4 field= 71.3	44.2 field= 47.2	57.1 field= 63.4	70.0 field= 62.1	82.9 field= 61.1
6.0 field= 102.1	18.9 field= 82.2	31.8 field= 70.6	44.6 field= 47.2	57.5 field= 63.5	70.4 field= 62.1	83.3 field= 61.0
6.4 field= 101.3	19.3 field= 74.5	32.2 field= 70.6	45.1 field= 46.9	57.9 field= 63.6	70.8 field= 62.7	83.7 field= 60.8
6.8 field= 97.4	19.7 field= 72.5	32.6 field= 69.3	45.5 field= 47.5	58.3 field= 63.7	71.2 field= 63.1	84.1 field= 60.5
7.2 field= 96.3	20.1 field= 73.8	33.0 field= 67.7	45.9 field= 47.9	58.7 field= 63.6	71.6 field= 63.2	84.5 field= 60.4
7.6 field= 99.9	20.5 field= 80.2	33.4 field= 69.3	46.3 field= 48.6	59.1 field= 63.5	72.0 field= 63.2	84.9 field= 60.4
8.0 field= 98.9	20.9 field= 83.6	33.8 field= 68.2	46.7 field= 49.8	59.5 field= 63.3	72.4 field= 63.0	85.3 field= 60.3
8.4 field= 99.1	21.3 field= 78.4	34.2 field= 67.2	47.1 field= 50.5	59.9 field= 63.1	72.8 field= 62.5	85.7 field= 60.3
8.8 field= 98.8	21.7 field= 74.5	34.6 field= 67.1	47.5 field= 51.5	60.3 field= 63.1	73.2 field= 62.0	86.1 field= 59.7
9.3 field= 98.4	22.1 field= 71.9	35.0 field= 67.3	47.9 field= 52.3	60.7 field= 62.9	73.6 field= 61.9	86.5 field= 58.6
9.7 field= 93.5	22.5 field= 68.1	35.4 field= 68.1	48.3 field= 53.0	61.1 field= 63.2	74.0 field= 61.9	86.9 field= 57.6
10.1 field= 89.0	22.9 field= 68.0	35.8 field= 68.8	48.7 field= 53.5	61.5 field= 63.5	74.4 field= 62.0	87.3 field= 56.6
10.5 field= 90.8	23.3 field= 66.5	36.2 field= 69.2	49.1 field= 55.2	61.9 field= 62.8	74.8 field= 62.0	
10.9 field= 92.5	23.7 field= 64.5	36.6 field= 69.2	49.5 field= 56.9	62.3 field= 61.9	75.2 field= 61.8	
11.3 field= 90.7	24.1 field= 66.1	37.0 field= 69.8	49.9 field= 58.9	62.8 field= 62.1	75.6 field= 61.8	
11.7 field= 85.0	24.5 field= 69.5	37.4 field= 71.2	50.3 field= 61.0	63.2 field= 62.1	76.0 field= 61.7	
12.1 field= 83.0	24.9 field= 72.7	37.8 field= 72.6	50.7 field= 62.5	63.6 field= 61.9	76.4 field= 61.8	
12.5 field= 83.6	25.3 field= 74.9	38.2 field= 72.5	51.1 field= 63.0	64.0 field= 62.0	76.8 field= 61.8	
12.9 field= 86.4	25.7 field= 76.9	38.6 field= 72.6	51.5 field= 63.4	64.4 field= 61.9	77.2 field= 61.6	
13.3 field= 91.3	26.1 field= 74.5	39.0 field= 76.5	51.9 field= 63.3	64.8 field= 62.1	77.6 field= 61.6	

= Terrain profile

= Terrain profile



THE FOLLOWING IS A LIST OF THE DATA WHICH APPEARS ON THE ABOVE MAP

BOTTOM LATITUDE: 41.59 TOP LATITUDE: 44.48 LEFT LONGITUDE: -91.52 RIGHT LONGITUDE: -87.71

MAP: ENLARGED CONUS MAP PROJECTION: Lambert Equal-area CENTER LAT: 43.04 LONG: -89.61 GRID SPACING: 0.00

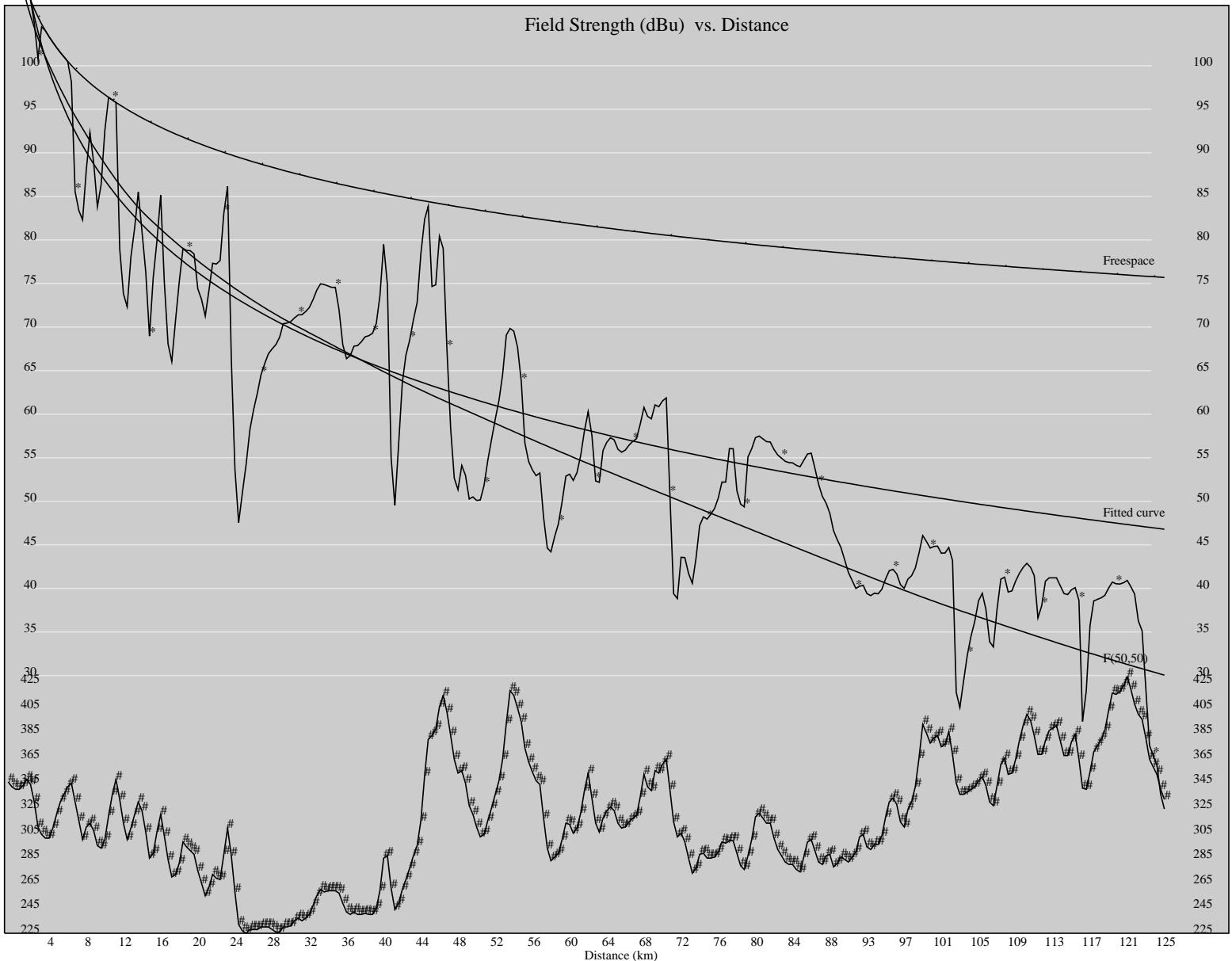
KILOMETERS / INCH = 52.71

PLOT MADE ON : 2 July, 1998 10:49 HOURS

call	serv	city,state	application no.	contour	chan	erp	haat	rcamsl	coverage area	A1	A7
WIBAFM	FM	Madison,WI	BLH950824KC	40.0 dBu (50,10)	268B	12.000	309.0	609.0	49373.4 sq km	0	0
WIBAFM	FM	Madison,WI	BLH950824KC	40.0 dBu (50,10)	268B	12.000	309.0	609.0	49373.4 sq km	0	0

A1 - Number of radials where free space equation was used for field strength calculations.

A7 - Number of radials where a HAAT less than 30 meters was adjusted to 30 meters.



The following are used for this plot:

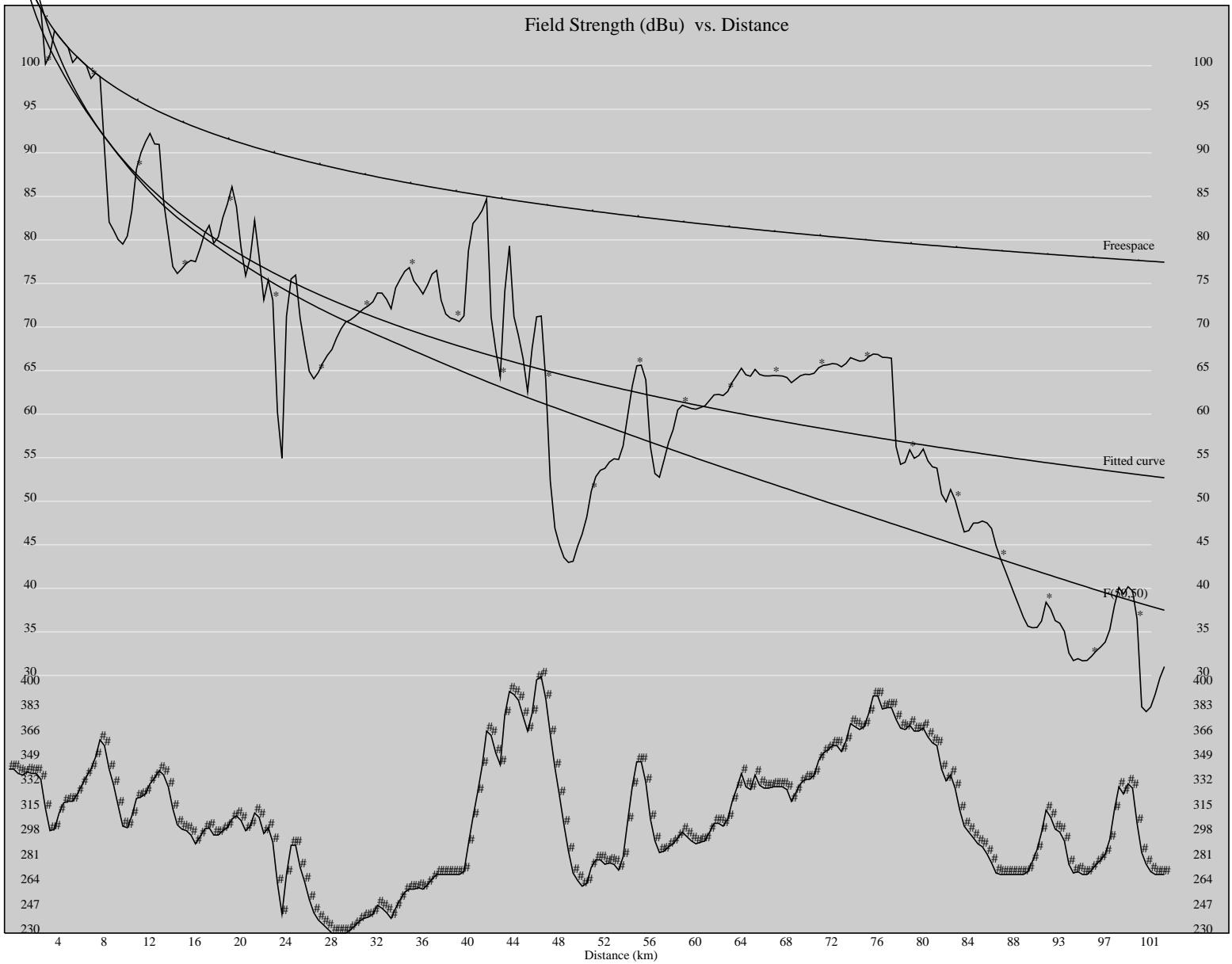
[Prepared 2-JUL-1998 11:08:49.48]

initpt= 2 maxpt= 313 latbegin= 155001 longbegin= 322326 (43.0558, 89.5350) latend= 161138 longend= 329654
freq=101.5 erp = 12.00 kw (10.792 dBk) htamsl (m)= 609.0 contour (dBu)= 40.0 maxdist (km)= 250
b-intercept (dBu)= 127.0 slope (field strength/distance)= -38.19

Distance to 40.0 dBu contour: 123.9 km. at 320.0 degrees

0.8 field= 119.6	13.7 field= 72.3	26.5 field= 54.2	39.4 field= 68.9	52.3 field= 51.8	65.2 field= 55.8	78.0 field= 52.2	90.9 field= 44.7	103.8 field= 26.3	116.7 field= 38.6
1.2 field= 116.1	14.1 field= 78.1	27.0 field= 58.2	39.8 field= 69.0	52.7 field= 54.7	65.6 field= 56.8	78.4 field= 52.2	91.3 field= 43.3	104.2 field= 29.4	117.1 field= 24.7
1.6 field= 113.6	14.5 field= 81.4	27.4 field= 60.5	40.2 field= 69.3	53.1 field= 57.1	66.0 field= 57.3	78.8 field= 56.0	91.7 field= 41.8	104.6 field= 32.3	117.5 field= 28.3
2.0 field= 111.6	14.9 field= 85.5	27.8 field= 62.4	40.6 field= 70.4	53.5 field= 59.4	66.4 field= 57.0	79.2 field= 56.0	92.1 field= 40.9	105.0 field= 34.5	117.9 field= 35.7
2.4 field= 110.0	15.3 field= 81.0	28.2 field= 64.5	41.0 field= 73.6	53.9 field= 61.6	66.8 field= 56.0	79.6 field= 51.2	92.5 field= 40.0	105.4 field= 36.2	118.3 field= 38.6
2.8 field= 108.7	15.7 field= 76.3	28.6 field= 65.8	41.4 field= 79.5	54.3 field= 64.5	67.2 field= 55.6	80.0 field= 49.7	92.9 field= 40.2	105.8 field= 38.6	118.7 field= 38.7
3.2 field= 107.5	16.1 field= 69.0	29.0 field= 66.9	41.8 field= 74.9	54.7 field= 69.1	67.6 field= 55.9	80.4 field= 49.4	93.3 field= 40.4	106.2 field= 39.4	119.1 field= 38.9
3.6 field= 104.9	16.5 field= 75.7	29.4 field= 67.5	42.2 field= 55.0	55.1 field= 69.8	68.0 field= 56.4	80.9 field= 55.1	93.7 field= 39.4	106.6 field= 37.6	119.5 field= 39.2
4.0 field= 100.8	16.9 field= 79.9	29.8 field= 68.0	42.6 field= 49.5	55.5 field= 69.5	68.4 field= 56.9	81.3 field= 56.0	94.1 field= 39.2	107.0 field= 33.9	119.9 field= 40.0
4.4 field= 104.4	17.3 field= 85.1	30.2 field= 68.8	43.0 field= 56.5	55.9 field= 67.7	68.8 field= 57.2	81.7 field= 57.3	94.5 field= 39.4	107.4 field= 33.3	120.3 field= 40.7
4.8 field= 104.0	17.7 field= 75.2	30.6 field= 70.4	43.4 field= 63.6	56.3 field= 63.7	69.2 field= 58.9	82.1 field= 57.5	94.9 field= 39.4	107.8 field= 37.7	120.7 field= 40.5
5.2 field= 103.3	18.1 field= 68.1	31.0 field= 70.5	43.8 field= 66.8	56.7 field= 56.7	69.6 field= 60.8	82.5 field= 57.2	95.3 field= 39.9	108.2 field= 41.1	121.1 field= 40.5
5.6 field= 102.7	18.5 field= 66.0	31.4 field= 70.6	44.2 field= 68.5	57.1 field= 54.6	70.0 field= 59.8	82.9 field= 56.8	95.7 field= 41.1	108.6 field= 41.3	121.5 field= 40.7
6.0 field= 102.1	18.9 field= 70.7	31.8 field= 71.0	44.6 field= 70.8	57.5 field= 53.6	70.4 field= 59.5	83.3 field= 56.8	96.1 field= 42.0	109.0 field= 39.6	121.9 field= 40.9
6.4 field= 101.5	19.3 field= 75.2	32.2 field= 71.4	45.1 field= 72.8	57.9 field= 52.9	70.8 field= 61.1	83.7 field= 56.0	96.5 field= 42.2	109.4 field= 39.7	122.3 field= 40.2
6.8 field= 101.0	19.7 field= 79.0	32.6 field= 71.4	45.5 field= 78.4	58.3 field= 53.2	71.2 field= 60.9	84.1 field= 55.3	96.9 field= 41.7	109.8 field= 40.8	122.7 field= 39.3
7.2 field= 100.5	20.1 field= 78.8	33.0 field= 71.8	45.9 field= 82.4	58.7 field= 48.2	71.6 field= 61.5	84.5 field= 54.9	97.3 field= 40.4	110.2 field= 41.7	123.1 field= 36.3
7.6 field= 98.2	20.5 field= 78.8	33.4 field= 72.2	46.3 field= 83.9	59.1 field= 44.6	72.0 field= 61.9	84.9 field= 54.6	97.7 field= 40.0	110.6 field= 42.4	123.5 field= 35.1
8.0 field= 85.5	20.9 field= 78.4	33.8 field= 73.1	46.7 field= 74.7	59.5 field= 44.2	72.4 field= 50.8	85.3 field= 54.4	98.1 field= 41.1	111.0 field= 42.9	123.9 field= 28.5
8.4 field= 83.4	21.3 field= 74.4	34.2 field= 74.2	47.1 field= 74.9	59.9 field= 45.9	72.8 field= 39.4	85.7 field= 54.4	98.6 field= 41.5	111.4 field= 42.4	124.3 field= 22.0
8.8 field= 82.3	21.7 field= 73.2	34.6 field= 74.9	47.5 field= 80.4	60.3 field= 47.4	73.2 field= 38.8	86.1 field= 54.1	99.0 field= 42.3	111.8 field= 41.5	124.7 field= 20.8
9.3 field= 88.1	22.1 field= 71.3	35.0 field= 74.9	47.9 field= 79.0	60.7 field= 50.0	73.6 field= 43.6	86.5 field= 54.0	99.4 field= 44.0	112.2 field= 36.6	125.1 field= 19.7
9.7 field= 92.3	22.5 field= 74.3	35.4 field= 74.7	48.3 field= 67.5	61.1 field= 52.9	74.0 field= 43.5	86.9 field= 54.7	99.8 field= 46.1	112.6 field= 38.0	125.5 field= 16.4
10.1 field= 88.9	22.9 field= 77.3	35.8 field= 74.6	48.7 field= 58.3	61.5 field= 53.1	74.4 field= 41.7	87.3 field= 55.4	100.2 field= 45.4	113.0 field= 40.8	125.9 field= 14.7
10.5 field= 83.8	23.3 field= 77.2	36.2 field= 74.5	49.1 field= 52.6	61.9 field= 52.4	74.8 field= 40.6	87.7 field= 55.5	100.6 field= 44.6	113.4 field= 41.2	
10.9 field= 86.4	23.7 field= 77.6	36.6 field= 72.2	49.5 field= 51.3	62.3 field= 53.3	75.2 field= 43.4	88.1 field= 53.8	101.0 field= 44.8	113.8 field= 41.2	
11.3 field= 92.6	24.1 field= 83.1	37.0 field= 68.0	49.9 field= 54.1	62.8 field= 55.3	75.6 field= 47.2	88.5 field= 52.0	101.4 field= 44.8	114.2 field= 41.2	
11.7 field= 96.4	24.5 field= 86.1	37.4 field= 66.4	50.3 field= 53.0	63.2 field= 58.1	76.0 field= 48.2	88.9 field= 50.6	101.8 field= 44.0	114.6 field= 40.3	
12.1 field= 96.1	24.9 field= 66.3	37.8 field= 66.7	50.7 field= 50.3	63.6 field= 60.3	76.4 field= 48.0	89.3 field= 49.8	102.2 field= 44.1	115.0 field= 39.4	
12.5 field= 95.8	25.3 field= 53.7	38.2 field= 67.8	51.1 field= 50.5	64.0 field= 57.6	76.8 field= 48.5	89.7 field= 48.6	102.6 field= 44.7	115.4 field= 39.3	
12.9 field= 79.0	25.7 field= 47.6	38.6 field= 67.9	51.5 field= 50.1	64.4 field= 52.3	77.2 field= 49.2	90.1 field= 46.6	103.0 field= 43.2	115.8 field= 39.8	
13.3 field= 73.8	26.1 field= 51.0	39.0 field= 68.3	51.9 field= 50.1	64.8 field= 52.2	77.6 field= 50.3	90.5 field= 45.6	103.4 field= 28.1	116.3 field= 40.1	

= Terrain profile

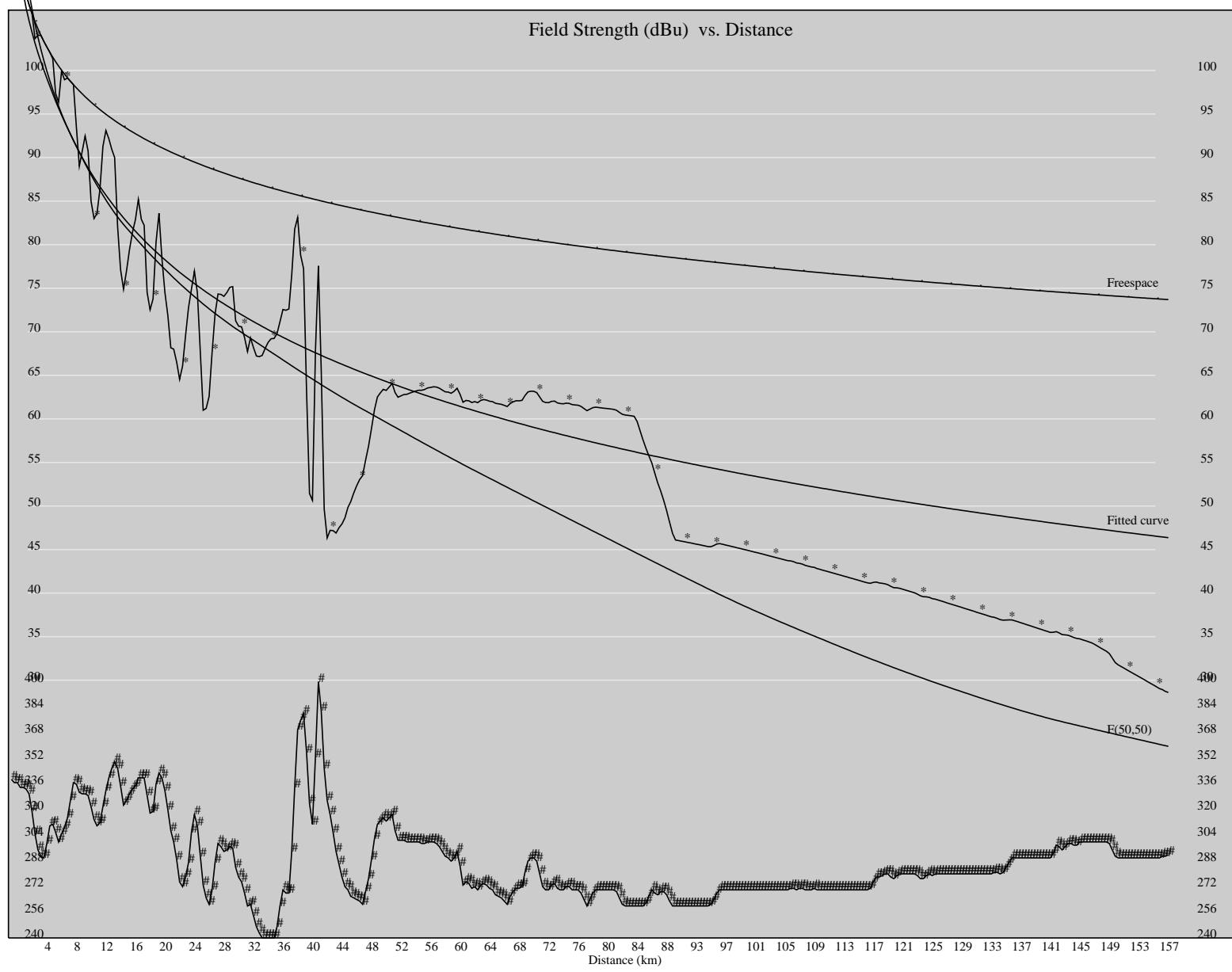


The following are used for this plot: [Prepared 2-JUL-1998 11:13:30.95]

initpt= 2 maxpt= 256 latbegin= 155001 longbegin= 322326 (43.0558, 89.5350) latend= 161973 longend= 328049
freq=101.5 erp = 12.00 kw (10.792 dBk) htamsl (m)= 609.0 contour (dBu)= 40.0 maxdist (km)= 250
b-intercept (dBu)= -128.0 slope (field strength/distance)= -37.41

0.8 field= 119.6	13.7 field= 91.0	26.5 field= 71.0	39.4 field= 71.5	52.3 field= 51.1	65.2 field= 64.4	78.0 field= 66.5	90.9 field= 35.7
1.2 field= 116.1	14.1 field= 91.0	27.0 field= 67.9	39.8 field= 71.0	52.7 field= 52.8	65.6 field= 65.3	78.4 field= 66.5	91.3 field= 35.5
1.6 field= 113.6	14.5 field= 84.4	27.4 field= 64.9	40.2 field= 70.9	53.1 field= 53.6	66.0 field= 64.5	78.8 field= 66.4	91.7 field= 35.5
2.0 field= 111.6	14.9 field= 80.6	27.8 field= 64.1	40.6 field= 70.6	53.5 field= 53.8	66.4 field= 64.3	79.2 field= 56.3	92.1 field= 36.2
2.4 field= 110.0	15.3 field= 76.9	28.2 field= 64.8	41.0 field= 71.3	53.9 field= 54.5	66.8 field= 65.1	79.6 field= 54.2	92.5 field= 38.4
2.8 field= 108.7	15.7 field= 76.1	28.6 field= 65.9	41.4 field= 78.8	54.3 field= 54.9	67.2 field= 64.6	80.0 field= 54.5	92.9 field= 37.6
3.2 field= 107.5	16.1 field= 76.7	29.0 field= 66.8	41.8 field= 81.9	54.7 field= 54.8	67.6 field= 64.4	80.4 field= 55.9	93.3 field= 36.3
3.6 field= 106.5	16.5 field= 77.3	29.4 field= 67.4	42.2 field= 82.5	55.1 field= 56.3	68.0 field= 64.4	80.9 field= 54.9	93.7 field= 36.0
4.0 field= 100.2	16.9 field= 77.6	29.8 field= 68.7	42.6 field= 83.4	55.5 field= 59.8	68.4 field= 64.4	81.3 field= 55.2	94.1 field= 35.1
4.4 field= 101.3	17.3 field= 77.5	30.2 field= 69.8	43.0 field= 84.7	55.9 field= 63.2	68.8 field= 64.4	81.7 field= 56.0	94.5 field= 32.6
4.8 field= 104.0	17.7 field= 79.0	30.6 field= 70.6	43.4 field= 71.2	56.3 field= 65.6	69.2 field= 64.4	82.1 field= 54.6	94.9 field= 31.7
5.2 field= 103.3	18.1 field= 80.7	31.0 field= 70.8	43.8 field= 67.3	56.7 field= 65.6	69.6 field= 64.2	82.5 field= 53.9	95.3 field= 31.9
5.6 field= 102.7	18.5 field= 81.7	31.4 field= 71.2	44.2 field= 64.3	57.1 field= 63.9	70.0 field= 63.6	82.9 field= 53.8	95.7 field= 31.7
6.0 field= 102.1	18.9 field= 79.6	31.8 field= 71.7	44.6 field= 74.1	57.5 field= 56.3	70.4 field= 64.0	83.3 field= 50.8	96.1 field= 31.7
6.4 field= 100.4	19.3 field= 80.3	32.2 field= 72.1	45.1 field= 79.3	57.9 field= 53.2	70.8 field= 64.4	83.7 field= 49.9	96.5 field= 32.2
6.8 field= 101.0	19.7 field= 82.5	32.6 field= 72.4	45.5 field= 71.2	58.3 field= 52.8	71.2 field= 64.6	84.1 field= 51.3	96.9 field= 32.8
7.2 field= 100.5	20.1 field= 84.1	33.0 field= 72.9	45.9 field= 69.0	58.7 field= 54.7	71.6 field= 64.5	84.5 field= 50.2	97.3 field= 33.3
7.6 field= 100.0	20.5 field= 86.1	33.4 field= 73.9	46.3 field= 66.4	59.1 field= 56.8	72.0 field= 64.7	84.9 field= 48.2	97.7 field= 33.8
8.0 field= 98.5	20.9 field= 83.8	33.8 field= 73.9	46.7 field= 62.6	59.5 field= 58.2	72.4 field= 65.3	85.3 field= 46.5	98.1 field= 35.2
8.4 field= 99.2	21.3 field= 79.2	34.2 field= 73.2	47.1 field= 67.5	59.9 field= 60.5	72.8 field= 65.6	85.7 field= 46.6	98.6 field= 38.0
8.8 field= 98.8	21.7 field= 75.9	34.6 field= 72.1	47.5 field= 71.2	60.3 field= 61.0	73.2 field= 65.7	86.1 field= 47.5	99.0 field= 40.1
9.3 field= 90.5	22.1 field= 77.9	35.0 field= 74.5	47.9 field= 71.2	60.7 field= 60.8	73.6 field= 65.8	86.5 field= 47.5	99.4 field= 39.3
9.7 field= 82.0	22.5 field= 82.2	35.4 field= 75.5	48.3 field= 63.9	61.1 field= 60.6	74.0 field= 65.7	86.9 field= 47.7	99.8 field= 40.2
10.1 field= 81.1	22.9 field= 78.0	35.8 field= 76.4	48.7 field= 52.3	61.5 field= 60.6	74.4 field= 65.4	87.3 field= 47.5	100.2 field= 39.7
10.5 field= 80.0	23.3 field= 73.1	36.2 field= 76.8	49.1 field= 46.9	61.9 field= 60.8	74.8 field= 65.8	87.7 field= 46.9	100.6 field= 36.5
10.9 field= 79.5	23.7 field= 75.4	36.6 field= 75.3	49.5 field= 45.0	62.3 field= 60.9	75.2 field= 66.5	88.1 field= 44.9	101.0 field= 26.4
11.3 field= 80.4	24.1 field= 73.1	37.0 field= 74.6	49.9 field= 43.5	62.8 field= 61.6	75.6 field= 66.3	88.5 field= 43.4	101.4 field= 25.8
11.7 field= 83.3	24.5 field= 60.2	37.4 field= 73.8	50.3 field= 43.0	63.2 field= 62.2	76.0 field= 66.1	88.9 field= 42.0	101.8 field= 26.4
12.1 field= 88.1	24.9 field= 54.9	37.8 field= 74.8	50.7 field= 43.1	63.6 field= 62.3	76.4 field= 66.1	89.3 field= 40.7	102.2 field= 27.9
12.5 field= 90.0	25.3 field= 71.2	38.2 field= 76.1	51.1 field= 44.8	64.0 field= 62.1	76.8 field= 66.6	89.7 field= 39.3	102.6 field= 29.7
12.9 field= 91.2	25.7 field= 75.5	38.6 field= 76.5	51.5 field= 46.2	64.4 field= 62.6	77.2 field= 66.9	90.1 field= 38.0	103.0 field= 31.0
13.3 field= 92.2	26.1 field= 76.0	39.0 field= 73.1	51.9 field= 48.2	64.8 field= 63.7	77.6 field= 66.9	90.5 field= 36.7	

= Terrain profile



The following are used for this plot:
initpt= 2 maxpt= 394 latbegin=

[Prepared 2-JUL-1998 11:15:48.07]
begin= 322326 (-43.0558 89.5350)

```
inptpt= 2 maxpt= 394 latbegin= 155001 longbegin= 322326 (43.0558, 89.5350) latend= 162590 longend= 326252  
freq=105.1 erp = 12.00 kw ( 10.792 dBk) htmsl (m)= 609.0 contour (dBu)= 40.0 maxdist (km)= 250  
b-intercept (dBu)= 127.7 slope (field strength/distance)= -36.96
```

Distance to 40.0 dBu contour: 156.5 km. at 340.0 degrees

```

mimp= 2 maxp= 594 tabcogen= 15301 longbegin= 3223260 (45.0358, 82.3530) latbegin= 162390 longend= 326232
freq=101.5 erp (dBW)= 12.000 kw ( 10.792 dBk) htansl (m)= 609.0 contour (dBu)= 40.0 maxdist (km)= 250
b-intercept (dBdB)= 127.7 slope (field/strength/distance)= -36.96

0.8 field= 119.6 13.7 field= 93.1 26.5 field= 67.6 39.4 field= 81.8 52.3 field= 63.6 65.2 field= 62.2 78.0 field= 61.6 90.9 field= 46.8 103.8 field= 44.3 116.7 field= 41.4 129.5 field= 38.6
1.2 field= 116.1 14.1 field= 92.2 27.0 field= 61.0 39.8 field= 83.1 52.7 field= 64.1 65.6 field= 62.2 78.4 field= 61.4 91.3 field= 46.1 104.2 field= 44.3 117.1 field= 41.3 129.9 field= 38.5
1.6 field= 113.6 14.5 field= 90.9 27.4 field= 61.2 40.2 field= 78.8 53.1 field= 63.0 66.0 field= 62.0 78.8 field= 61.2 91.7 field= 46.0 104.6 field= 44.2 117.5 field= 41.2 130.3 field= 38.4
2.0 field= 111.6 14.9 field= 90.0 27.8 field= 62.6 40.6 field= 77.2 53.5 field= 62.5 66.4 field= 62.0 79.2 field= 60.9 92.1 field= 46.0 105.0 field= 44.1 117.9 field= 41.1 130.7 field= 38.2
2.4 field= 110.0 15.3 field= 82.1 28.2 field= 67.6 41.0 field= 63.2 53.9 field= 62.7 66.8 field= 61.8 79.6 field= 61.1 92.5 field= 45.9 105.4 field= 44.0 118.3 field= 41.2 131.1 field= 38.1
2.8 field= 108.7 15.7 field= 77.1 28.6 field= 72.0 41.4 field= 51.4 54.3 field= 62.8 67.2 field= 61.7 80.0 field= 61.3 92.9 field= 45.8 105.8 field= 43.9 118.7 field= 41.3 131.5 field= 38.0
3.2 field= 107.5 16.1 field= 74.9 29.0 field= 74.3 41.8 field= 50.6 54.7 field= 62.8 67.6 field= 61.7 80.4 field= 61.3 93.3 field= 45.8 106.2 field= 43.8 119.1 field= 41.2 131.9 field= 37.9
3.6 field= 106.5 16.5 field= 77.0 29.4 field= 74.3 42.2 field= 67.8 55.1 field= 63.0 68.0 field= 61.5 80.9 field= 61.3 93.7 field= 45.7 106.6 field= 43.7 119.5 field= 41.1 132.3 field= 37.8
4.0 field= 103.6 16.9 field= 79.4 29.8 field= 74.1 42.6 field= 77.6 55.5 field= 63.1 68.4 field= 61.4 81.3 field= 61.3 94.1 field= 45.6 107.0 field= 43.7 119.9 field= 41.1 132.7 field= 37.7
4.4 field= 104.0 17.3 field= 81.4 30.2 field= 74.5 43.0 field= 65.6 55.9 field= 63.2 68.8 field= 61.8 81.7 field= 61.2 94.5 field= 45.6 107.4 field= 43.6 120.3 field= 41.0 133.1 field= 37.6
4.8 field= 104.0 17.7 field= 82.9 30.6 field= 75.1 43.4 field= 49.6 56.3 field= 63.3 69.2 field= 62.0 82.1 field= 61.2 94.9 field= 45.5 107.8 field= 43.5 120.7 field= 40.8 133.5 field= 37.5
5.2 field= 103.3 18.1 field= 85.2 31.0 field= 75.2 43.8 field= 46.3 56.7 field= 63.3 69.6 field= 62.1 82.5 field= 61.1 95.3 field= 45.4 108.2 field= 43.4 121.1 field= 40.6 133.9 field= 37.4
5.6 field= 102.7 18.5 field= 82.9 31.4 field= 71.3 44.2 field= 47.2 57.1 field= 63.4 70.0 field= 62.1 82.9 field= 61.1 95.7 field= 45.3 108.6 field= 43.3 121.5 field= 40.6 134.4 field= 37.3
6.0 field= 102.1 18.9 field= 82.2 31.8 field= 70.6 44.6 field= 47.2 57.5 field= 63.5 70.4 field= 62.1 83.3 field= 61.0 96.1 field= 45.3 109.0 field= 43.2 121.9 field= 40.6 134.8 field= 37.2
6.4 field= 101.3 19.3 field= 74.5 32.2 field= 70.6 45.1 field= 46.9 57.9 field= 63.6 70.8 field= 62.7 83.7 field= 60.8 96.5 field= 45.5 109.4 field= 43.1 122.3 field= 40.4 135.2 field= 37.1
6.8 field= 97.4 19.7 field= 72.5 32.6 field= 69.3 45.5 field= 47.5 58.3 field= 63.7 71.2 field= 63.1 84.1 field= 60.5 96.9 field= 45.6 109.8 field= 43.0 122.7 field= 40.3 135.6 field= 37.0
7.2 field= 96.3 20.1 field= 73.8 33.0 field= 67.7 45.9 field= 47.9 58.7 field= 63.6 71.6 field= 63.2 84.5 field= 60.4 97.3 field= 45.7 110.2 field= 43.0 123.1 field= 40.2 136.0 field= 36.9
7.6 field= 99.9 20.5 field= 80.2 33.4 field= 69.3 46.3 field= 48.6 59.1 field= 63.5 72.0 field= 63.2 84.9 field= 60.4 97.7 field= 45.6 110.6 field= 42.8 123.5 field= 40.1 136.4 field= 36.9
8.0 field= 98.9 20.9 field= 83.6 33.8 field= 68.2 46.7 field= 49.8 59.5 field= 63.3 72.4 field= 63.0 85.3 field= 60.3 98.1 field= 45.5 111.0 field= 42.7 123.9 field= 40.0 136.8 field= 36.9
8.4 field= 99.1 21.3 field= 78.4 34.2 field= 67.2 47.1 field= 50.5 59.9 field= 63.1 72.8 field= 62.5 85.7 field= 60.3 98.6 field= 45.4 111.4 field= 42.6 124.3 field= 39.9 137.2 field= 36.9
8.8 field= 98.8 21.7 field= 74.5 34.6 field= 67.1 47.5 field= 51.5 60.3 field= 63.1 73.2 field= 62.0 86.1 field= 59.7 99.0 field= 45.4 111.8 field= 42.5 124.7 field= 39.7 137.6 field= 36.8
9.3 field= 98.4 22.1 field= 71.9 35.0 field= 67.3 47.9 field= 52.3 60.7 field= 62.9 73.6 field= 61.9 86.5 field= 58.4 99.4 field= 45.3 112.2 field= 42.4 125.1 field= 39.6 138.0 field= 36.7
9.7 field= 93.5 22.5 field= 68.1 35.4 field= 68.1 48.3 field= 53.0 61.1 field= 63.2 74.0 field= 61.9 86.9 field= 57.6 99.8 field= 45.2 112.6 field= 42.3 125.5 field= 39.6 138.4 field= 36.6
10.1 field= 89.0 22.9 field= 68.0 35.8 field= 68.8 48.7 field= 53.5 61.5 field= 63.5 74.4 field= 62.0 87.3 field= 56.6 100.2 field= 45.1 113.0 field= 42.2 125.9 field= 39.5 138.8 field= 36.5
10.5 field= 90.8 23.3 field= 66.5 36.2 field= 69.2 49.1 field= 55.2 61.9 field= 62.8 74.8 field= 62.0 87.7 field= 55.8 100.6 field= 45.0 113.4 field= 42.1 126.3 field= 39.4 139.2 field= 36.4
10.9 field= 92.5 23.7 field= 64.5 36.6 field= 69.2 49.5 field= 56.9 62.3 field= 61.9 75.2 field= 61.8 88.1 field= 54.9 101.0 field= 44.9 113.8 field= 42.1 126.7 field= 39.3 139.6 field= 36.3
11.3 field= 90.7 24.1 field= 66.1 37.0 field= 69.8 49.9 field= 58.9 62.8 field= 62.1 75.6 field= 61.8 88.5 field= 53.8 101.4 field= 44.9 114.2 field= 42.0 127.1 field= 39.2 140.0 field= 36.2
11.7 field= 85.0 24.5 field= 69.5 37.4 field= 71.2 50.3 field= 61.0 63.2 field= 62.1 76.0 field= 61.7 88.9 field= 52.7 101.8 field= 44.8 114.6 field= 41.9 127.5 field= 39.1 140.4 field= 36.0
12.1 field= 83.0 24.9 field= 72.7 37.8 field= 72.6 50.7 field= 62.5 63.6 field= 61.9 76.4 field= 61.8 89.3 field= 51.7 102.2 field= 44.7 115.0 field= 41.8 127.9 field= 39.0 140.8 field= 35.9
12.5 field= 83.6 25.3 field= 74.9 38.2 field= 72.5 51.1 field= 63.0 64.0 field= 62.0 76.8 field= 61.8 89.7 field= 50.7 102.6 field= 44.6 115.4 field= 41.7 128.3 field= 38.9 141.2 field= 35.8
12.9 field= 86.4 25.7 field= 76.9 38.6 field= 72.6 51.5 field= 63.4 64.4 field= 61.9 77.2 field= 61.6 90.1 field= 49.5 103.0 field= 44.5 115.8 field= 41.6 128.7 field= 38.8 141.6 field= 35.7
13.3 field= 91.3 26.1 field= 74.5 39.0 field= 76.5 51.9 field= 63.3 64.8 field= 62.1 77.6 field= 61.6 90.5 field= 48.1 103.4 field= 44.4 116.3 field= 41.5 129.1 field= 38.7 142.0 field= 35.7

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= Terrain profile